

L16 ANSWER 33 OF 48 WPIX (C) 2003 THOMSON DERWENT

AN 1983-56590K [24] WPIX Full-text

DNC C1983-054946

TI Expansible **polystyrene**pellet production - comprises styrene polymerisation in medium containing **polyethylene wax** having low mol. weight and narrow mol. weight distribution.

DC A13

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CYC 3

PI DE 3243885 A 19830609 (198324)* 11p

GB 2110217 A 19830615 (198324)

JP 58125728 A 19830726 (198335)

PRAI US 1981-325174 19811127

IC C08F002-44; C08F112-08; C08J009-16

AB DE 3243885 A UPAB: 19930925

Expansible **polystyrene**pellets are prepared by polymerising styrene monomer in a reaction mixture containing 0.05-0.5 weight% w.r.t. styrene, of a **polyethylene wax**, and impregnating the pellets with a blowing agent. Novelty consists in using a linear polyethylene, (A), having density at least 25.4 kg/cu.m., mol. weight 700-1500, very narrow mol. weight distribution expressed as poly-dispersity below 1.2 and m.pt. at least 102 deg. C. The expansible **polystyrene**pellets, containing blowing agent and 0.05-5 weight% (A), are claimed.

Pellets are used in the production of moulded articles, e.g. cups. Small cell sizes, e.g. down to 20-100 microns, and quick moulding cycles, are achieved.

FS CPI

FA AB

MC CPI: A04-C02A; A04-G02E; A08-S06; A12-S01